

Listing of Claims

1. (Currently Amended) A method for adjusting a brightness level of a display used in a portable computer system, the method comprising:

separately storing, in a first memory area, brightness control information for a plurality of brightness levels for each of at least two power mode types;

reading out brightness control information in a first power mode for an adjusted one of the levels and in a second power mode for an adjusted one of the levels from the first memory area, wherein the brightness control information in the first power mode and the brightness control information in the second power mode correspond to different brightness levels adjusted by a user for the first power mode and the second power mode;

respectively storing, in different locations of a second memory area, the brightness control information read out from the first memory area for the first and second power modes;

confirming a type of power mode currently being used out of said first and second power mode types; and

controlling the brightness level of the display based on the brightness control information independently stored in the different locations of the second memory area for the confirmed power mode, wherein the first power mode is a battery power mode and the second power mode is an AC power mode.

2. (Currently Amended) The method according to claim 1, comprising adjusting the brightness level of a LCD using an input device, ~~wherein the type of power mode currently being used includes at least one of an AC adaptor mode and a supplementary battery mode.~~

3. (Canceled)

4. (Canceled)

5. (Currently Amended) The method according to claim 1, wherein when a power ~~mode is supply being confirmed to be the is a supplementary battery power mode~~, the brightness level of the display is adjusted by using [[an]] index information corresponding to the user-adjusted brightness level that corresponds to the brightness control information stored in one of the different locations in the second memory area for the levels in a battery power mode, and
wherein the index information is read out from the second memory area includes ~~including~~ at least one of a microcomputer random access memory (micom RAM) or a system initialization RAM.

6. (Currently Amended) The method according to claim 1, when a power ~~mode is supply being confirmed to be the is an AC adaptor power mode~~, the brightness level of the display is adjusted by using [[an]] index information corresponding to the user-adjusted brightness level that corresponds to the brightness control information stored in one of the different locations in the second memory area for the levels in a AC adaptor power mode, and

wherein the index information is read out from the second memory area includes ~~including~~ at least one of a microcomputer random access memory (micom RAM) or a system initialization RAM.

7. (Currently Amended) The method according to claim 1, wherein ~~[[the]]~~ index information corresponding to the brightness levels in the AC ~~adaptor~~ power mode ~~[[and]]~~ the index information corresponding to the brightness levels in the battery power mode are independently and respectively stored in the first memory area.

8. (Currently Amended) The method according to claim 1, wherein ~~[[the]]~~ index information corresponding to the brightness levels in the AC ~~adaptor~~ power mode and ~~[[the]]~~ index information corresponding to the brightness levels in the battery power mode are separately stored in a microcomputer memory of the personal computer system and in a system initialization RAM, the microcomputer memory including the first memory area and the system initialization RAM including the second memory area.

9. (Currently Amended) The method according to claim 1, wherein when ~~[[a]]~~ the ~~type of power mode supply being~~ confirmed is the ~~[[an]]~~ AC power mode ~~adaptor~~, the brightness level of the display is adjusted by using an index information corresponding to a ~~[[the]]~~ brightness level of the brightness control information for the levels in an AC ~~adaptor~~ power mode stored in the second memory area.

Reply to Office Action of November 27, 2007

10. (Currently Amended) A method, comprising:

independently storing, in a first storage area, brightness level information for a plurality of power supplies in a computer system;

respectively storing, in different locations of a second storage area, brightness level information read out from the first storage area for a first power supply and brightness level information read out from the first storage area for a second power supply, wherein the brightness level information for the first power supply and the brightness level information for the second power supply correspond to different brightness levels adjusted by a user for the first power supply and the second power supply;

determining a type of power supply currently being used among the plurality of power supplies in the computer system when a brightness level of a display is adjusted;

selecting brightness level information from the independently stored information in the first storage area, the selected brightness level information corresponding to the determined power supply type for the adjusted brightness level of the display, the determined power supply type corresponding to one of the first or second power supplies;

reading index information corresponding to the selected brightness level information;

driving the adjusted brightness level of the display based on the readout index information; and

Reply to Office Action of November 27, 2007

updating the second storage area to independently store the index information in the different locations of the second storage area according to the determined type of power supply.

11. (Previously Presented) The method according to claim 10, wherein at least one of an index information corresponding to an adjusted brightness level in an AC adaptor power mode and an index information corresponding to an adjusted brightness level in a battery power mode is separately stored in the second storage area.

12. (Previously Presented) The method according to claim 10, further comprising:
changing from a first power supply being an AC adaptor to a second power supply being a battery, wherein the driving the adjusted brightness level of the display comprises referring to an index information in a battery power mode, and wherein the index information is separately stored in second storage area.

13. (Previously Presented) The method according to claim 12, comprising:
changing from the battery to the AC adaptor,
wherein the driving the adjusted brightness level of the display comprises referring to an index information in an AC adaptor power mode, and wherein the index information is separately stored in the second storage area.

14. (Currently Amended) The method according to claim 10, comprising:

turning on power of the computer system after the power was turned off,

wherein the driving the adjusted brightness level of the display comprises confirming the type of power supply currently being used, and reading out of the second storage area user-adjusted index information in an AC adaptor power mode or in a battery power mode, wherein the user-adjusted index information stored in the second memory is independently stored in the different locations according to the AC adaptor power mode or the battery mode.

15. (Original) The method according to claim 10, wherein the brightness level of the display is adjusted automatically, periodically or using an input device by a user.

16. (Currently Amended) A method for adjusting a brightness level of a display, the method comprising:

independently storing index information in a first storage area for a plurality of brightness levels of the display in each of at least two different power modes;

respectively storing, in different locations of a second storage area, index information read out from the first storage area for one of the brightness levels in a first power mode and index information read out from the first storage area for one of the brightness levels in a second power mode; and

adjusting a brightness of the display using information on a current power mode being used and the index information stored in the different locations of the second storage area for the brightness level of the current power mode when the power mode is changed, wherein the index information stored in the different locations of the second storage area for the first and second power modes include user-adjusted index values corresponding to different brightness levels.

17. (Canceled)

18. (Original) The method of claim 16, comprising adjusting the brightness level of a LCD using an input device, wherein the type of power mode currently being used includes at least one of an AC adaptor mode and a supplementary battery mode.

19. (Previously Presented) The method of claim 18, wherein the index information stored in the second storage area in the AC adaptor mode corresponds to a brightness level different than a brightness level corresponding to the index information stored in the second storage area in the supplementary battery mode.

20. (Currently Amended) An apparatus that controls an inverter pulse width modulation (PWM) frequency of a liquid crystal display (LCD) in a portable computer, comprising:

a first storage area configured to separately provide LCD brightness level information for a plurality of brightness levels for each of at least two power mode types;

a second storage area configured to respectively store in different locations brightness level information in a first power mode for ~~[[an]] a user-~~adjusted one of the levels and in a second power mode for ~~[[an]] a user-~~adjusted one of the levels read out from the first storage area;

an inverter configured to supply a voltage to the LCD; and

a control circuit for controlling a PWM frequency of the inverter to achieve a designated brightness level based on the user-adjusted LCD brightness level information independently stored in the second storage area for a current power supply mode, wherein said respectively storing includes:

independently storing, in the different locations of the second memory area, the user-adjusted brightness control information read out from the first memory area for the first and second power modes, wherein the user-adjusted brightness control information for the first and second power modes are stored in the different locations of the second memory area.

21. (Original) The apparatus of claim 20, wherein the LCD brightness level information includes index information.

22. (Previously Presented) The apparatus of claim 20, wherein the first and second storage areas are different memories.

23-26 (Canceled)

27. (Previously Presented) The method of claim 1, wherein the brightness control information stored in the first memory area for the first power mode lies within a first percentage range and the brightness control information stored in a first memory area for the second power mode lies in a second range having a different brightness percentage range.

28. (Previously Presented) The method of claim 1, further comprising:
storing the brightness control information for the first and second power modes in an auxiliary memory; and
transferring the brightness control information stored in the auxiliary memory to the respective different locations in the first memory area when the computer system is turned on after it has been turned off.

Reply to Office Action of November 27, 2007

29. (Currently Amended) The method of claim 1 [[23]], wherein the brightness control information for the first and second power modes is stored simultaneously into locations of a microcomputer random access memory (micom RAM) and a system initialization RAM

30. (Currently Amended) The method of claim 10 [[24]], wherein the brightness control information for the first power supply and the second power supply is stored simultaneously into locations of a microcomputer random access memory (micom RAM) or a system initialization RAM.

31. (Currently Amended) The method of claim 16 [[25]], wherein the index information for the first power mode and the second power mode is stored simultaneously into locations of a microcomputer random access memory (micom RAM) or a system initialization RAM.

32. (Currently Amended) The method of claim 20 [[26]], wherein the brightness control information for the first power mode and the second power mode are stored simultaneously into locations of a microcomputer random access memory (micom RAM) or a system initialization RAM.

33. (Previously Presented) The method of claim 1, further comprising:
detecting a change in a power mode currently being used; and
reading out brightness control information corresponding to the changed power mode from the second memory, wherein the brightness control information corresponding to the changed power mode is independently stored in different locations of the second memory, which includes at least one of a microcomputer random access memory (micom RAM) or a system initialization RAM.

34. (New) The method according to claim 1, wherein after a turn-off operation is performed for the portable computer system, the method includes:

confirming a type of power mode to be used out of the first and second power modes, confirmation of the type of power mode being performed after the portable computer system is turned back on following said turn-off operation; and

controlling the brightness level of the display based on the brightness control information independently stored in the different locations of a system initialization of the second memory area for the confirmed power mode.

35. (New) The method according to claim 34, wherein a first location in the second memory area is exclusively designated to store the user-adjusted brightness control information for the first power mode, and a second location in the second memory area is exclusively

designated to store the user-adjusted brightness control information in the second power mode,
and

wherein the brightness level of the display is controlled based on the brightness control information stored in one of the first location or the second location in the second memory area that is exclusively designated to store information for the type of power mode confirmed to be used out of said first and second power modes.

36. (New) The method according to claim 1, wherein respectively storing the brightness control information includes:

designating a first memory location in the second memory area for storing a first index value indicative of a user-adjusted brightness level of a screen of the portable computer system in the first power mode;

designating a second memory location in the second memory area for storing a second index value indicative of a user-adjusted brightness level of the screen of the portable computer system in the second power mode,

wherein the first and second index values are simultaneously stored in the first and second memory locations of the second memory area.

37. (New) The method of claim 36, further comprising:

respectively storing, in different locations of a third memory area, the brightness control information read out from the second memory area for the first and second power modes, the brightness control information being automatically erased from the second memory area after power to the portable computer system is turned off, and wherein the brightness control information is retained in the different locations of the third memory area after power of the portable computer system is turned off and then turned back on, and

wherein the brightness level of the display is controlled based on the brightness control information independently stored in the different locations of the third memory area after power to the portable computer system is turned on after being turned off.